

Recombinant Full Length Human DUSP7 Protein, GST-tagged

Cat. No. DUSP7-4120HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP7 full-length ORF (AAH19107.1, 1 a.a. - 320 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	320 amino acids
Description	Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. DUSP7 belongs to a class of DUSPs, designated MKPs, that dephosphorylate MAPK (mitogen-activated protein kinase) proteins ERK (see MIM 601795), JNK (see MIM 601158), and p38 (see MIM 600289) with specificity distinct from that of individual MKP proteins. MKPs contain a highly conserved C-terminal catalytic domain and an N-terminal Cdc25 (see MIM 116947)-like (CH2) domain. MAPK activation cascades mediate various physiologic processes, including cellular proliferation, apoptosis, differentiation, and stress responses (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]
Molecular Mass	60.94 kDa
AA Sequence	MLRRLRKGNLPIRSIIPNHADKERFATRCKAATVLLYDEATAEWQPEPGAPASVLGLL LQKL RDDGCQAYYLQGGFNKFQTEYSEHCETNVDSSSSPSSSPPTSVLGLGGLRIS

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SDCSDGESDRELPSSATESDGSPVPSSQPAFPVQILPYLYLGCAKDSTNLDVLGKY
GIKYILNVTPNLNPAFEHGGGEFTYKQIPISDHWSQNLSQFFPEAISFIDEARSKKCGVL
VHCLAGISRSVTVTVAAYLMQKMNLSLNDAYDFVKRKKSNISPNFNFIMGQLLDFERTL
GLSSPCDNHASSEQLYFSTPTNHNLFPLNTLEST

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name DUSP7 dual specificity phosphatase 7 [Homo sapiens]

Official Symbol DUSP7

Synonyms DUSP7; dual specificity phosphatase 7; dual specificity protein phosphatase 7; MKP X; PYST2; dual-specificity phosphatase-7; dual specificity protein phosphatase PYST2; MKPX; DKFZp586F2224;

Gene ID 1849

mRNA Refseq NM_001947

Protein Refseq NP_001938

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MIM	602749
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UniProt ID	Q16829
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